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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,823	03/29/2004	Jang Hui Cho	46500-000614/US/COA	1001
	7590 02/18/200 CKEY & PIERCE, P.I	EXAMINER		
P.O. BOX 8910)	SHIBRU, HELEN		
RESTON, VA 20195			ART UNIT	PAPER NUMBER
			2621	
			MAIL DATE	DELIVERY MODE
			02/18/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/810,823	CHO ET AL.		
Office Action Summary	Examiner	Art Unit		
	HELEN SHIBRU	2621		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on <u>03 No</u>	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-4,9,11,14 and 16-39 is/are pending 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4, 9, 11, 14, and 16-39 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration. ed. election requirement.			
10) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11) ☐ The oath or declaration is objected to by the Ex-	drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/22/08,08/05/08, 11/03/08, 01/02/09.	5) Notice of Informal P 6) Other:			



Application No.

DETAILED ACTION

Response to Amendment

1. The amendments filed on 11/03/2008 have been entered and made of record. Claims 1-4, 9, 11, 14, 16-39 are pending.

Response to Arguments

2. Applicant's arguments filed 11/03/2008 have been fully considered but they are not persuasive. See the response sets forth below.

Applicant states, Sugimoto does not teach 'second navigation unit... including at least one identifier for identifying one channel of the multi-channel stream."

In response the Examiner respectfully disagrees. The second navigation unit as recited in claim 1 is stored in the navigation area. See figures 45 and 51 where Sugimoto shows program which includes the cell and the cell including entry points. Sugimoto further discloses plural entry points are set for each movie cell and still image cell when plural reproduction path is present (see paragraph 0682-0684). Sugimoto further discloses the entry points are recorded in M_CI for each movie cell and S_CI for each still image cell. In addition Sugimoto discloses management information having a plurality of reproduction entry points for each of the reproduction paths. See also the present application figure 3 where it shows the PGCI including Cell. Therefore Sugimoto in fact discloses 'a second navigation unit including at least one identifier for identifying one *path* of the *multiple reproduction paths'* As recited in claim 1.

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Applicant states, "Sugimoto does not teach or suggest the identifiers of the second navigation units as recited in claim 25 by its generic cell entry points." Applicant also states, "Claim 25 recites that the identifier in the second navigation unit identifies 'one channel of the multi-channel stream."

In response the Examiner respectfully disagrees. Claim 25 does not recite such limitation. Claim 25 only recites 'the recording medium of claim 24, wherein each data block represents at least an intra-coded picture of video data.'

In response to applicant's argument that the combination of Okada and Saeki or Sugimoto is impermissible under 35 U.S.C 103(a), the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

Therefore the claimed invention does in fact read on the cited references for at least the reasons discussed above and as stated in the detail Office Action as follows.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-4, 9, 11, 14, and 16-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okada (US PG PUB 2002/0046328) in view of Yamamoto (US Pat. No. 5,742,569) and further in view of Saeki (US PG PUB 2001/0043790), Sugimoto (US PG PUB 20010038745) and Official Notice.

Regarding claim 1, Okada discloses a computer readable medium storing an executable data structure for managing reproduction of at least video data representing multiple reproduction paths by a reproducing apparatus, comprising: a data area storing at least video data as a transport stream in more than one file, each file associated with a different one of the multiple reproduction paths, (see page 2 paragraphs 0034-0037, page 8 paragraph 0175, paragraph 0193 and 0234, and figures 4, 26, and 29).

Claim 1 differs from Okada in that the claim further requires a navigation area storing a first navigation unit, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units, at least one second navigation unit referencing more than one map, each map associated with different one of the multiple reproduction paths and indicating a separate file of video data in the data area to reproduce.

In the same field of endeavor Yamamoto discloses a navigation area storing a first navigation unit, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units (see fig. 6, col. 12 lines 1-34, where it teaches the PGCI includes program information and cell information, col. 15 line 29-col. 16 line 40 and figs. 7A and 7B). Therefore in light of the teaching in Yamamoto it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Okada by including navigation units in order to control the data.

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Claim 1 further differs from the above proposed combinations in that the claim further requires at least one navigation data item referencing more than one map, each map being associated with a different one of the multiple reproduction paths and indicating a separate file of video data in the data area to reproduce.

In the same field of endeavor Saeki discloses at least one navigation data item referencing more than one map, each map being associated with a different one of the multiple reproduction paths (see fig. 9 where it shows cell #1 referencing more than one map and each map are associated with one of the files. See also the abstract, paragraphs 0067, 0100, 0107-0118 and fig. 11). Therefore in light of the teaching in Saeki it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above proposed combination by providing a navigation data item referencing more than one map in order to arrange address.

Claim 1 further differs from the above proposed combination in that the claim further requires the second navigation unit including at least one identifier for identifying one path of the multiple reproduction paths.

In the same field of endeavor Sugimoto discloses entry point (*referring to identifier*) contained in a cell (see figure 45). Sugimoto further discloses plural entry points are set for each movie cell and still image cell when plural reproduction path is present (see paragraph 0682-0684). Sugimoto further discloses the entry points are recorded in M_CI for each movie cell and S_CI for each still image cell. In addition Sugimoto discloses management information having a plurality of reproduction entry points for each of the reproduction paths. Therefore in light of the teaching in Sugimoto it would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify the above proposed combination in order to skip to various points as desired in any of the possible paths.

Claim 1 further differs from Sugimoto, Saeki, Okada and Yamamoto in that the claim further requires the transport packets of each reproduction path being interleaved with one another.

Official Notice is taken that it is well known in the art to have the transport packets being interleave with one another. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above combination by including interleaved transport packets in order to reproduce split or combined data seamlessly.

Regarding claim 2, Okada discloses the transport packets associated with each reproduction path are grouped into data blocks, and the transport packets of each reproduction path are interleaved with one another on a data block by data block basis (see page 2 paragraphs 0034-0037, page 8 paragraph 0175, paragraph 0193 and 0234, and figures 4, 26, and 29, see also fig. 5 in Yamamoto and claim 1 rejection above).

Regarding claim 3, Okada discloses wherein each data block represents at least an intracoded picture of video data (see figure 12 and paragraphs 0005-0009 in page 1 and paragraph 0167 in page 8 in Okada and fig. 2 in Yamamoto).

Regarding claim 4, Okada discloses wherein each data block represents at least one group of pictures (GOP) (see figure 4 in Okada and fig. 2 in Yamamoto).

Claim 9 is rejected for the same reason as discussed in claim 1.

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Regarding claim 11, Okada discloses a computer-readable medium storing an executable data structure for managing reproduction of at least video data representing multiple reproduction paths by a reproducing apparatus, comprising:

a data area storing a transport stream of at least video data, the transport stream being divided into transport packets, each of the transport packets associated with one of the multiple reproduction paths (see rejection of claim 1 above); and

Claim 11 differs from Okada in that the claim further requires a navigation area including a first navigation unit including one or more second navigation units, the second navigation unit providing navigation information for reproducing each of the multiple reproduction paths and, including a multiple reproduction path indicator indicating that the second navigation unit provides navigation information for multiple reproduction paths.

In the same field of endeavor Yamamoto discloses a navigation area storing a first navigation unit, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units (see fig. 6, col. 12 lines 1-34, where it teaches the PGCI includes program information and cell information, col. 15 line 29-col. 16 line 40 and figs. 7A and 7B). Therefore in light of the teaching in Yamamoto it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Okada by including navigation units in order to control the data.

Claim 11 further differs from the above proposed combinations in that the claim further requires at least one navigation data item referencing more than one map, each map being associated with a different one of the multiple reproduction paths and indicating a separate file of video data in the data area to reproduce.

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In the same field of endeavor Saeki discloses at least one navigation data item referencing more than one map, each map being associated with a different one of the multiple reproduction paths and indicating a separate file of video data in the data area to reproduce (see fig. 9 where it shows cell #1 referencing more than one map and each map are associated with one of the files. See also the abstract, paragraphs 0067, 0100, 0107-0118 and fig. 11). Therefore in light of the teaching in Saeki it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above proposed combination by providing a navigation data item referencing more than one map in order to arrange address.

Claim 11 further differs from the above proposed combination in that the claim further requires the second navigation unit including at least one identifier for identifying one path of the multiple reproduction paths.

In the same field of endeavor Sugimoto discloses entry point (*referring to identifier*) contained in a cell (see figure 45). Sugimoto further discloses plural entry points are set for each movie cell and still image cell when plural reproduction path is present (see paragraph 0682-0684). Sugimoto further discloses the entry points are recorded in M_CI for each movie cell and S_CI for each still image cell. In addition Sugimoto discloses management information having a plurality of reproduction entry points for each of the reproduction paths. Therefore in light of the teaching in Sugimoto it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above proposed combination in order to skip to various points as desired in any of the possible paths.

Claim 11 further differs from Sugimoto, Saeki, Okada and Yamamoto in that the claim further requires the transport packets of each reproduction path being interleaved with one another.

Official Notice is taken that it is well known in the art to have the transport packets being interleave with one another. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above combination by including interleaved transport packets in order to reproduce split or combined data seamlessly.

Regarding claim 14, Okada discloses each reproduction path represents one of a digital channel and a sub-channel of an RF channel (see pages 1-2).

Regarding claims 16 and 17, limitation of claims 16 and 17 can be found in claim 1 above. Therefore claims 16 and 17 are analyzed and rejected for the same reason as discussed in claim 1 above.

Regarding claim 18, Okada discloses an apparatus for recording a data structure for managing reproduction duration at least video data representing multiple reproduction paths, comprising: a pickup configured to record data on the recording medium (see figure 12 which shows a driver circuit 63); a controller, operably coupled to the pickup (see fig. 12), configured to control recording a transport stream of at least video data on the recording medium, the transport stream being divided into transport packets, each of the transport packets associated with one of the multiple reproduction paths (see figure 12 which shows the driver circuit controlled by the controller MPU, and rejection of claim 1).

Claim 18 differs from Okada in that the claim further requires the controller configured to control recording a first navigation unit on the recording medium, the first navigation unit

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including one or more second navigation units and controlling a reproduction order of the second navigation units, at least one of the second navigation units referencing more than one third navigation unit, each third navigation unit indicating a separate file of video data to reproduce.

In the same field of endeavor Yamamoto discloses a navigation area storing a first navigation unit, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units (see fig. 6, col. 12 lines 1-34, where it teaches the PGCI includes program information and cell information, col. 15 line 29-col. 16 line 40 and figs. 7A and 7B). Therefore in light of the teaching in Yamamoto it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Okada by including navigation units in order to control the data.

Claim 18 further differs from the above proposed combinations in that the claim further requires at least one navigation data item referencing more than one map, each map being associated with a different one of the multiple reproduction paths.

In the same field of endeavor Saeki discloses at least one navigation data item referencing more than one map, each map being associated with a different one of the multiple reproduction paths (see fig. 9 where it shows cell #1 referencing more than one map and each map are associated with one of the files. See also the abstract, paragraphs 0067, 0100, 0107-0118 and fig. 11). Therefore in light of the teaching in Saeki it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above proposed combination by providing a navigation data item referencing more than one map in order to arrange address.

Claim 18 further differs from the above proposed combination in that the claim further requires the second navigation unit including at least one identifier for identifying one path of the multiple reproduction paths.

In the same field of endeavor Sugimoto discloses entry point (*referring to identifier*) contained in a cell (see figure 45). Sugimoto further discloses plural entry points are set for each movie cell and still image cell when plural reproduction path is present (see paragraph 0682-0684). Sugimoto further discloses the entry points are recorded in M_CI for each movie cell and S_CI for each still image cell. In addition Sugimoto discloses management information having a plurality of reproduction entry points for each of the reproduction paths. Therefore in light of the teaching in Sugimoto it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above proposed combination in order to skip to various points as desired in any of the possible paths.

Claim 18 further differs from Sugimoto, Saeki, Okada and Yamamoto in that the claim further requires the transport packets of each reproduction path being interleaved with one another.

Official Notice is taken that it is well known in the art to have the transport packets being interleave with one another. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above combination by including interleaved transport packets in order to reproduce split or combined data seamlessly.

Claim 19 is rejected for the same reason as discussed in claim 18 above. See also figure 12 in Okada where it shows reproducing unit.

Regarding claim 20, the limitation of claim 20 can be found in claim 1 above. Therefore claim 20 is analyzed and rejected for the same reason as discussed in claim 1.

Regarding claim 21, Saeki discloses a number of the third navigation units associated with the at least one of the second navigation units is equal to a number of the multiple reproduction paths (see figure 9, see also claim 1 rejection above).

Regarding claim 22, Yamamoto discloses at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths (see figures 6 and 7A-7B. See also claim 1 rejection above).

Claim 23 is rejected for the same reason as discussed in claim 1 above.

Claims 24, 25 and 26 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

Claims 27-29 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

Claims 30-32 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

Claims 33-35 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

Claims 36-38 are rejected for the same reason as discussed in claims 2-3, and 15 respectively above.

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Regarding claim 39, Saeki discloses each map includes point information including position-related presentation time data of the associated one of the multiple reproduction paths (see figures 9, 11 and paragraphs 0067, 0100, and 0107-0118).

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HELEN SHIBRU whose telephone number is (571)272-7329. The examiner can normally be reached on M-F, 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THAI Q. TRAN can be reached on (571) 272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/HELEN SHIBRU/ Examiner, Art Unit 2621 February 9, 2009

/Thai Tran/

Supervisory Patent Examiner, Art Unit 2621